COLUMNAR SECTION

					GENERALIZED SECTION OF	F THE ROCKS EXPOSED IN THE JOHNSTOWN QUADRANGLE. SCALE: 1 INCH = 200 FEET.	
SYSTEM.	FORMATION.	Symbol.	COLUMNAR SECTION.	THICKNESS IN FEET.	Members.	General Character of Rocks.	General Character of Topography and Soil.
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					Wilmore sandstone.		
					Summerhill sandstone.		
	Conemaugh formation	Ccm		850-		Shale and heavy sandstones, with a few beds of coal, locally workable, thin limestones, and an occasional bed of red shale. The sandstones are not persistent but are lenticular, being very massive in some localities and pinching out entirely and being replaced by shales in others. The limestones also are lenticular.	Rolling country cut here and there by deep valleys. Surface is generally smooth, free from rock, and in large part cultivated. The sandstone outcrops form uncultivated rocky
				960±	Morgantown ("Ebensburg") sandstone. Ames limestone.	stones also are lenticular.	regions.
z					Ames limestone. Harlem (?) coal. Red shale.		
PENNSYLVANIAN					Saltsburg sandstone.		
INSYL		-			Bakerstown coal.		
PEP					Buffalo sandstone.		
					Gallitzin coal.		
			#359		Upper sandstone. Mahoning coal. Flint clay. Lower sandstone.		
0					Upper Freeport coal and limestone. Butler sandstone.		
D	Allegheny formation.	Ca		220-290	Lower Freeport coal and limestone. Upper Kittanning coal. Johnstown limestone (cement bed).	Chiefly gray and dark shale, with local beds of heavy sandstone. This is the coal bearing formation of the quadrangle and contains at least five coals that are workable in different parts of the area.	Slopes and valleys of the larger rivers and streams. Surface smooth, with few sandstone breaks.
r	Anegheny formation.	Ja		220 200	Middle Kittanning coal. Lower Kittanning coal and clay	coals that are workable in different parts of the area.	smooth, with lew sandstone breaks.
<u>п</u>					Kittanning sandstone. Brookville and Clarion coals.		
L		-			Homewood sandstone.		
-	Pottsville formation.	Сру	din	175–250	Mercer shale.	Characterized by two heavy sandstones, separated by a comparatively thin shale. Contains a valuable bed of flint clay and an unimportant coal.	Ridges and steep valley slopes, with rocky uncultivated surface
z	UNCONFORMITY				Connoquenessing sandstone.		
o		,				Red and green shale, with a 40-foot red and green sandstone member near the middle.	Chiefly stream valleys with smooth surface; red soil, susceptible of cultivation.
מ	Mauch Chunk shale.	Cmc		175–200		the middle.	ble of cultivation.
r					Loyalhanna limestone.		
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					Burgoon sandstone.		
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PPIAN					Patton shale.		
MISSISSIPPIAN							
¥ ×	Pocono formation.	Сро		1000- 1100		Grayish green sandy shale and sandstone, with several bands of red shale.	Rocky slopes and bottoms of stream gorges where it is exposed.
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Z	Control of the second of	D		400 .		Red shale and reddish to green sandstones.	Bottom and lower slopes of the Conemaugh River gorge.
	Catskill formation.	Dck		400+		The same and total as Broom surface.	
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